STIC-Biot ch/ChemLib 66157

From: Chan, Christina
Sent: Tuesday, May 07, 2002 2:30 PM
To: Davis, Minh-Tam; STIC-Biotech/ChemLib
Subject: RE: Rush search request for 09/583848

Please rush. Thanks Chris

-----Original Message-----
From: Davis, Minh-Tam
Sent: Tuesday, May 07, 2002 1:42 PM
T : Chan, Christina
Subject: Rush search request for 09/583848

Please search in commercial database and in issued patent files:
1) Oligomer search for SEQ ID NO:18
Please use the parent case 08/037230 for CRF.
Thank you.
MINH TAM DAVIS
ART UNIT 1642, ROOM 8A01, MB 8E12
305-2008

Point of Contact:
Toby Port
Technical Info. Specialist
CM1 6A04
703-308-3534

	TYPE OF SEARCH:	VENDOR/COST(where applic.)
Searcher:	NA Sequences: 1	STN:
Phone:	AA Sequences:	DIALOG:
Location:	Structures:	Questel/Orbit:
Date Picked Up: 5/8	Bibliographic:	DRLink:
Date Completed: 5/10	Litigation:	Lexis/Nexis:
Searcher Prep/Review: 10	Full text:	Sequence Sys.: CS
Clerical:	Patent Family:	WWW/Internet:
Online time: 10	Other:	Other (specify):

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? ds

Set     Items   Description
S1       2633   POLYNUCLEOTIDE (5N)SEQUENCE
S2       2835   LISTING
S3         11   S1 AND S2
S4          0   S3 AND PY<1991
S5         46   S1 AND PY<1991
S6       5080   SEQUENCE(5N)NUMBER
S7          0   S5 AND S6
S8          0   T S5/3,K,AB/1-20
? s tumor or cancer or malignan?
            8295  TUMOR
            8306  CANCER
            2132  MALIGNAN?
      S9   15125  TUMOR OR CANCER OR MALIGNAN?
? s s5 and s9
              46  S5
           15125  S9
     S10       1  S5 AND S9
? t s10/3,k,ab/1

 10/3,K,AB/1
DIALOG(R)File 340:CLAIMS(R)/US Patent
(c) 2002 IFI/CLAIMS(R). All rts. reserv.

Dialog Acc No: 1904686  IFI Acc No: 8824139
Document Type: C
METHOD FOR LOCATING AND PURIFYING DNA CONTAINING SINGLE BASE MISMATCHES;
REACTING UNPAIRED GUANINE AND THYMINE BASES WITH A CARBODIIMIDE;
ELECTROPHORESIS
Inventors: CASNA NANCY J (US); FORD JOHN P (US); NOVACK DAVID F (US)
Assignee: LIFECODES CORP
Assignee Code: 15050  Document Type: REASSIGNED
Publication (No,Date), Applic (No,Date):
US 4794075     19881227 US 85770841   19850829
Publication Kind:  A
Calculated Expiration: 20051227
 (Cited in 016 later patents)  Document Type: EXPIRED  Document Type:
     CERTIFICATE OF CORRECTION  Certificate of Correction Date: 19890912
Priority Applic(No,Date): US 85770841    19850829

Abstract: A method for distinguishing fragments of DNA which contain single
base mismatches from their perfectly paired homologues is disclosed. Single
stranded regions within a duplex fragment are modified with carbodiimide,
which reacts with unpaired guanine (G) and thymine (T) residues in DNA.
Linear duplex DNA molecules do not react, while DNA molecules with single
base mismatches react quantitatively with carbodiimide. Following reaction
with carbodiimide, the DNA molecules are fractionated on high percentage
polyacrylamide gels such that modified and unmodified fragments can be
clearly distinguished. Application of this technique in order to located
and purify DNA sequence differences responsible for phenotype variation and
inherited disease is disclosed.


Publication (No,Date), Applic (No,Date):
...19881227

Exemplary Claim: ...ONE BASE WHICH IS PAIRED, SAID PRECEDING AND FOLLOWING
   PAIRED BASES BEING ON THE SAME POLYNUCLEOTIDE SEQUENCE AS
   THE UNPAIRED GUANINE OR THYMINE BASE COMPRISING: (A) REACTING THE DOUBLE
   STRANDED POLYNUCLEOTIDE MOLECULE...
Non-exemplary Claims: ...one base which is paired, said preceding and
   following paired bases being on the same polynucleotide
```

sequence as the unpaired guanine or thymine base comprising: (a) hybridizing a first single stranded **polynucleotide sequence** with a second single stranded **polynucleotide sequence** to form a double stranded **polynucleotide** molecule; (b) reacting the double stranded polynucleotide molecule with a reagent capable of altering the...

...which are paired, said preceding and following pluralities of paired bases being on the same **polynucleotide sequence** as the unpaired guanine or thymine base...

...one base which is paired, said preceding and following paired bases being on the same **polynucleotide sequence** as the unpaired guanine or thymine base; (c) selectively separating underivatized polynucleotide molecules from derivatized...which are paired, said preceding and following pluralities of paired bases being on the same **polynucleotide sequence** as the unpaired guanine or thymine base...

...of claim 19 wherein the genetic disease is selected from the group consisting of breast **cancer**, colon **cancer**, and cystic fibrosis...one base which is paired, said preceding and following paired bases being on the same **polynucleotide sequence** as the unpaired base, comprising: (a) reacting the double stranded polynucleotide molecule with a reagent...

...one base which is paired, said preceding and following paired bases being on the same **polynucleotide sequence** as the unpaired base, comprising: (a) hybridizing a first single stranded **polynucleotide sequence**

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 set hi ;set hi
HILIGHT set on as ''
HILIGHT set on as ''
? 40
>>>Unrecognizable Command
? b 340
       23may02 12:30:58 User231882 Session D1040.2
            $0.00    0.140 DialUnits File410
     $0.00  Estimated cost File410
     $0.03  TELNET
     $0.03  Estimated cost this search
     $0.03  Estimated total session cost   0.297 DialUnits

File 340:CLAIMS(R)/US Patent  1950-02/May 21
       (c) 2002 IFI/CLAIMS(R)
*File 340: Both the application and grant publication levels for a
patent are in a single record.  See HELP NEWS 340 for details.

      Set  Items  Description
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? s polynucleotide (5n)sequence
            4749  POLYNUCLEOTIDE
          121511  SEQUENCE
      S1    2633  POLYNUCLEOTIDE (5N)SEQUENCE
? s listing
      S2    2835  LISTING
? s s1 and s2
            2633  S1
            2835  S2
      S3      11  S1 AND S2
? rd
>>>Duplicate detection is not supported for File 340.
>>>All specified files are unsupported, command ignored.
? s s3 and py<1991
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         2120831  PY<1991
      S4       0  S3 AND PY<1991
? s s1 and py<1991
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         2120831  PY<1991
      S5      46  S1 AND PY<1991
? s sequence(5n)number
          121511  SEQUENCE
          382672  NUMBER
      S6    5080  SEQUENCE(5N)NUMBER
? s s5 and s6
              46  S5
            5080  S6
      S7       0  S5 AND S6
? s t s5/3,k,ab/1-20
      S8       0  T S5/3,K,AB/1-20
? t s5/3,k,ab/1-20

 5/3,K,AB/1
DIALOG(R)File 340:CLAIMS(R)/US Patent
(c) 2002 IFI/CLAIMS(R). All rts. reserv.

Dialog Acc No: 2096608  IFI Acc No: 9025640
Document Type: C
DIAGNOSTIC PROBE FOR RHEUMATOID ARTHRITIS PREDISPOSITION; GENETIC SCREENING
OF NUCLEOTIDES
Inventors: Nepom Gerald T (US)
Assignee: Mason, Virginia Research Center
Assignee Code: 08586
```

Publication (No,Date), Applic (No,Date):
US 4971902 **19901120** US 87115253 19871030
Publication Kind: A
Calculated Expiration: 20071120
(Cited in 004 later patents)
Priority Applic(No,Date): US 87115253 19871030

Abstract: Oligonucleotide probes for diagnosing predisposition to rheumatoid arthritis, capable of specifically hybridizing with 5'-TACGGGGTTGR1GAGAGCTT-3' or 3'-AR2GCCCCAACR3CR2CR2CGAA-5' wherein A is adenine, C is cytosine, G is guanine, T is thymine, R1 is GT or TG, R2 is T or uracil, and R3 is CA or AC. Or, capable of specifically hybridizing with 5'-GGAGCAGAR2GCGGGCCGCGG-3' or 3'-CCR2CGR2CR2R3CGCCCGGCGCC-5' wherein R1 is A or G, R2 is T or uracil, and R3 is R2 or C.

Publication (No,Date), Applic (No,Date):
...**19901120**
Non-exemplary Claims: ...acids with a probe comprising an oligonucleotide capable of specifically hybridizing with a disease-associated **polynucleotide sequence**, and detecting the presence or absence of the disease-associated sequence in the patient nucleic...

...acids with a probe comprising an oligonucleotide capable of specifically hybridizing with a disease-associated **polynucleotide sequence**, and detecting the presence or absence of the disease-associated sequence in the patient nucleic...

...acids with a probe comprising an oligonucleotide capable of specifically hybridizing with a disease-associated **polynucleotide sequence**, and detecting the presence or absence of the disease-associated sequence in the patient nucleic...

5/3,K,AB/2
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 2082449 IFI Acc No: 9021260
Document Type: C
FAST PHOTOCHEMICAL METHOD OF LABELLING NUCLEIC ACIDS FOR DETECTION PURPOSES IN HYBRIDIZATION ASSAYS
Inventors: Crothers Donald M (US); Dattagupta Nanibhushan (US)
Assignee: Molecular Diagnostics Inc
Assignee Code: 13044 Document Type: REASSIGNED
Publication (No,Date), Applic (No,Date):
US 4959309 **19900925** US 87107183 19871009
Publication Kind: A
Calculated Expiration: 20070925
(Cited in 009 later patents) Document Type: EXPIRED
Continuation Pub(No),Applic(No,Date): US 4737454 US 84611668 19840518
Cont.-in-part Pub(No),Applic(No,Date): ABANDONED US 83513932 19830714
Priority Applic(No,Date): US 87107183 19871009; US 84611668 19840518; US 83513932 19830714

Abstract: A labeled nucleic acid probe comprising (a) a nucleic acid component, (b) a nucleic acid-binding ligand photochemically linked to the nucleic acid component, and (c) a label chemically linked to the nucleic acid-binding ligand. The label can be a specifically bindable ligand such as a hapten or biotin, an enzyme such as a Beta -galactosidase or horse radish peroxidase, a fluorescent radical, a phycobiliprotein, a luminescent radical, or a radioisotope. The probe can be used in assays of nucleic

acids, taking advantage of the ability of the nucleic acid component to hydridize.

Publication (No,Date), Applic (No,Date):
...**19900925**
Non-exemplary Claims: ...14. A method for determining a particular **polynucleotide sequence** in a test sample, comprising the step of: (a) combining the test sample with a **polynucleotide** probe having a base **sequence** substantially complementary to the sequence to be determined, wherein a mono-adduct forming nucleic acid...30. A kit for determining a particular **polynucleotide sequence** in a test sample, comprising in one or more containers (a) a **polynucleotide** probe having a base **sequence** complementary to the sequence to be determined and (b) a mono-adduct forming nucleic acid ...

5/3,K,AB/3
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 2056197 IFI Acc No: 9013807
Document Type: C
NOVEL RESTRICTION ENDONUCLEASE; SPLITTING **POLYNUCLEOTIDE SEQUENCE** CONTAINGING CYSTEINE, ALANINE, THREONINE, AND GLYCINE
Inventors: Halden Nancy F (US); Leonard Warren J (US); Wolf Julie B (US)
Assignee: U S of America Health & Human Services
Assignee Code: 06814
Publication (No,Date), Applic (No,Date):
US 4935367 **19900619** US 88260829 19881021
Publication Kind: A
Calculated Expiration: 20080317
(Cited in 001 later patents)
Cont.-in-part Pub(No),Applic(No,Date): US 88169487 19880317
Priority Applic(No,Date): US 88260829 19881021; US 88169487 19880317

Abstract: A new restriction enzyme, Mfe I, has been discovered. Mfe I recognizes the sequence CAATTG and cuts at the recognition sequence C'AATTG and generates compatible cohesive ends with EcoRI cleaved fragments. Various utilities of the enzyme have been described.
...SPLITTING **POLYNUCLEOTIDE SEQUENCE** CONTAINGING CYSTEINE, ALANINE, THREONINE, AND GLYCINE
Publication (No,Date), Applic (No,Date):
...**19900619**

5/3,K,AB/4
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 2041405 IFI Acc No: 9009515
Document Type: C
POLYPEPTIDE HAVING GAMMA-INTERFERON ACTIVITY LACKING AMINO ACIDS CODED BY EXON 4
Inventors: Shirai Takashi (US); Wallace R Bruce (US)
Assignee: Asahi Kasei Kogyo K K JP
Assignee Code: 05568
Publication (No,Date), Applic (No,Date):
US 4921698 **19900501** US 87105473 19870930
Publication Kind: A
Calculated Expiration: 20070501
Continuation Pub(No),Applic(No,Date): ABANDONED US 84614130

19840525
Priority Applic(No,Date): US 87105473 19870930; US 84614130 19840525

Abstract: A polypeptide having gamma-interferon activity which lacks the amino acid sequence coded for by exon 4, a **polynucleotide sequence** which codes for said polypeptide, a replicable expression vehicle containing said **polynucleotide sequence** and a transformed microorganism containing said replicable expression vehicle are disclosed. The transformed microorganism is useful for preparing the polypeptide having gamma-interferon activity.

Publication (No,Date), Applic (No,Date):
...**19900501**

Abstract: ...gamma-interferon activity which lacks the amino acid sequence coded for by exon 4, a **polynucleotide sequence** which codes for said polypeptide, a replicable expression vehicle containing said **polynucleotide sequence** and a transformed microorganism containing said replicable expression vehicle are disclosed. The transformed microorganism is...

5/3,K,AB/5
DIALOG(R)File 340:CLAIMS(R)/US Patent
(c) 2002 IFI/CLAIMS(R). All rts. reserv.

Dialog Acc No: 2008615 IFI Acc No: 9000298
Document Type: C
DNA SEQUENCES ENCODING THE VARIOUS ALLELIC FORMS OF MATURE THAUMATIN, AND CLONING VEHICLES, ETC.; GENETIC ENGINEERING
Inventors: Edens Luppo (NL); Klok Robert (NL); Ledeboer Adrianus M (NL); Maat Jan (NL); Verrips Cornelis T (NL)
Assignee: Unilever Patent Holdings B V NL
Assignee Code: 17055
Publication (No,Date), Applic (No,Date):
Publication (Kind,No,Date), Applic (No,Date):
US 4891316 **19900102** US 85742139 19850607
Publication Kind: A
Calculated Expiration: 20070102
(Cited in 005 later patents) Document Type: EXPIRED
Continuation Pub(No),Applic(No,Date): ABANDONED US 81329829 19811211
Priority Applic(No,Date): GB 8039855 19801212

Abstract: The invention relates to DNA sequences encoding the various allelic forms of mature thaumatin, and cloning vehicles comprising said DNA sequences and their use in transforming microorganisms.

Publication (No,Date), Applic (No,Date):
...**19900102**

Exemplary Claim: ...group consisting of (i) a thaumatin II gene, of which the coding strand is

Base **sequence** of **polynucleotide** comprising 621 nucleo-
tides

and (ii) variations of said thaumatin II gene given in (i...

5/3,K,AB/6

DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 2003720 IFI Acc No: 8928692
Document Type: C
USE OF VOLUME EXCLUSION AGENTS FOR THE ENHANCEMENT OF IN SITU HYBRIDIZATION ; DIAGNOSTIC KIT;POLYNUCLEOTIDE TARGETS IN CELLS, LABELED PROBES DETECTING HUMAN PAPILLOMAVIRUS
Inventors: SCHWARTZ DENNIS E (US)
Assignee: MICROPROBE CORP
Assignee Code: 22189 Document Type: REASSIGNED
Publication (No,Date), Applic (No,Date):
US 4886741 **19891212** US 87130709 19871209
Publication Kind: A
Calculated Expiration: 20071209
(Cited in 016 later patents)
Priority Applic(No,Date): US 87130709 19871209

Abstract: This invention relates to methods for using volume exclusion agents to enhance in situ hybridization rates between short oligonucleotide probes and their target polynucleotides where the cells containing the target polynucleotides are adhered onto a glass substrate. In one aspect, the invention specifically relates to the use of volume exclusion agents to facilitate assay and diagnostic procedures for the detection of a virus, such as human papillomavirus (HPV). In addition, diagnostic kits embracing the above methods are described herein.

Publication (No,Date), Applic (No,Date):
...**19891212**

Exemplary Claim: ...HYBRIDIZATION MIXTURE COMPRISING LABELED SHORT PROBES OR BETWEEN 15 AND 30 NUCLEOTIDES HAVING A NUCLEOTIDE **SEQUENCE** CAPABLE OF HYBRIDIZING TO THE **POLYNUCLEOTIDE** TARGETS AND A VOLUME EXCLUSION AGENT AT A CONCENTRATION OF 2% TO 25% (W/V...

5/3,K,AB/7
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 1998931 IFI Acc No: 8927333
Document Type: C
AMPLIFIED HYBRIDIZATION ASSAY
Inventors: SCHNEIDER ROBERT J (US); SHENK THOMAS E (US)
Assignee: PRINCETON UNIVERSITY
Assignee Code: 67901
Publication (No,Date), Applic (No,Date):
US 4882269 **19891121** US 86940712 19861211
Publication Kind: A
Calculated Expiration: 20061121
(Cited in 038 later patents)
Cont.-in-part Pub(No),Applic(No,Date): US 85808695 19851213
Priority Applic(No,Date): US 86940712 19861211; US 85808695 19851213

Abstract: An amplified hybridization assay is described in which a family of signal-generating secondary probes bind to a primary probe that hybridizes to the target sequence of interest. Thus, an enormously amplified signal is generated by the hybridization event. The assay can be used for a variety of laboratory and clinical purposes and is automatable.
Publication (No,Date), Applic (No,Date):
...**19891121**

Exemplary Claim: ...TARGET NUCLEOTIDE UNDER CONDITIONS THAT PERMIT HYBRIDIZATION WITH (I) A PRIMARY PROBE WHICH COMPRISES A **POLYNUCLEOTIDE SEQUENCE** THAT IS COMPLEMENTARY TO THE TARGET NUCLEOTIDE SEQUENCE AND A POLYMERIC TAIL THAT HAS BINDING...

...THE AMPLIFIED SIGNAL GENERATED BY A REACTION PRODUCT FORMED IN STEP (A), IN WHICH THE **POLYNUCLEOTIDE SEQUENCE** OF THE PRIMARY PROBE IS HYBRIDIZED TO THE TARGET NUCLEOTIDE AND A PLURALITY OF SECONDARY...

Non-exemplary Claims: ...the detection of a target nucleotide sequence, comprising: (a) a primary probe which comprises a **polynucleotide sequence** that is complementary to the target nucleotide sequence and a polymeric tail that has binding...

...of the primary probe, which provides for the generation of an amplified signal when the **polynucleotide sequence** of the primary probe is hybridized to the target nucleotide and the plurality of secondary...

5/3,K,AB/8
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 1983495 IFI Acc No: 8922282
Document Type: C
SOLUTION PHASE NUCLEIC ACID SANDWICH ASSAY; POLYNUCLEOTIDES
Inventors: URDEA MICKEY (US); WARNER BRIAN (US)
Assignee: CHIRON CORP
Assignee Code: 11661 Document Type: REASSIGNED
Publication (No,Date), Applic (No,Date):
US 4868105 **19890919** US 85807624 19851211
Publication Kind: A
Calculated Expiration: 20060919
(Cited in 042 later patents)
Priority Applic(No,Date): US 85807624 19851211

Abstract: Methods and compositions are provided for rapid detection of nucleic acid sequences. The method employs two reagent sets. The first set is a labelling set comprising: (1) a first nucleic acid sequence probe having an analyte complementary region and a first recognition sequence region and (2) a labelled sequence complementary to the first recognition sequence region. The second set is a capturing set comprising: (1) a second nucleic acid sequence probe having an analyte complementary region and a second recognition sequence region, (2) a specific binding pair member conjugated to a sequence complementary to the second recognition sequence, and (3) a separating means to which is bound a complementary specific binding pair member. The sample and probes are combined under annealing conditions, followed by addition of the other reagents, separation of the bound label from the supernatant and detection of the label in either phase.

Publication (No,Date), Applic (No,Date):
...**19890919**

Exemplary Claim: ...SET OF REAGENTS, COMPRISING: (C) A PLURALITY OF CAPTURING NUCLEIC ACID PROBES COMPRISING SINGLE-STRANDED **POLYNUCLEOTIDE** CHAINS EACH HAVING TWO **POLYNUCLEOTIDE SEQUENCE** REGIONS, THE FIRST REGION HAVING A NUCLEIC ACID SEQUENCE C-1 ABOUT 15 TO ABOUT...

Non-exemplary Claims: ...set of reagents, comprising: (c) a plurality of capturing nucleic acid probes comprising single-stranded **polynucleotide** chains each having two **polynucleotide sequence** regions, the first region having a nucleic acid sequence C-1 about 15 to about...set of reagents, comprising: (c) a plurality of

capturing nucleic acid probes comprising single-stranded **polynucleotide** chains each having two **polynucleotide sequence** regions, the first region having a nucleic acid sequence C-1 about 15 to about...

...set of reagents comprising: (a) a plurality of capturing nucleic acid probes comprising single-stranded **polynucleotide** chains each having two **polynucleotide sequence** regions, the first region having a nucleic acid sequence C-1 about 15 to about...set of reagents comprising: (a) a plurality of capturing nucleic acid probes comprising single-stranded **polynucleotide** chains each having two **polynucleotide sequence** regions, the first region having a nucleic acid sequence C-1 about 15 to about...

...set of reagents comprising: (a) a plurality of capturing nucleic acid probes comprising single-stranded **polynucleotide** chains each having two **polynucleotide sequence** regions, the first region having a nucleic acid sequence C-1 about 15 to about...

5/3,K,AB/9
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 1965528 IFI Acc No: 8917114
Document Type: C
METHOD AND KIT FOR POLYNUCLEOTIDE ASSAY INCLUDING PRIMER-DEPENDANT DNA POLYMERASE; HYBRIDIZATION, SEQUENCING
Inventors: DIAMOND STEVEN E (US); VARY CALVIN P (US)
Assignee: ALLIEDSIGNAL INC
Assignee Code: 01960
Publication (No,Date), Applic (No,Date):
US 4851331 **19890725** US 86863750 19860516
Publication Kind: A
Calculated Expiration: 20060725
(Cited in 059 later patents) Document Type: EXPIRED
Priority Applic(No,Date): US 86863750 19860516

Abstract: A probe **polynucleotide** binds to a target nucleotide **sequence** in the nucleic acid of a biological sample, and then is enzymatically extended in the 3'-direction with a mixture of nucleoside triphosphates including at least one nucleoside triphosphate that has been detectably labeled. After separating extended hybrid from unreacted nucleoside triphosphates, detectably-modified nucleotides which have been incorporated are determined. In some forms, the 3'-terminal nucleotide of the probe polynucleotide is selected to form a matched pair with some sample strands, but a mismatched pair with other sample strands. In such cases, if the primer dependent enzyme used for extension is one lacking 3'-exonuclease activity, then only those hybrids forming such a matched pair will be extended and subsequently determined.

Publication (No,Date), Applic (No,Date):
...**19890725**

Abstract: A probe **polynucleotide** binds to a target nucleotide **sequence** in the nucleic acid of a biological sample, and then is enzymatically extended in the...

Exemplary Claim: ...BIOLOGICAL SAMPLE WHICH COMPRISES THE STEPS: (A) CONTACTING A BIOLOGICAL SAMPLE HAVING A TARGET NUCLEOTIDE **SEQUENCE** UNSEPARATED FROM PLURAL NON-TARGET **POLYNUCLEOTIDE** SEQUENCES WITH A PROBE POLYNUCLEOTIDE STRAND UNDER CONDITIONS SUFFICIENT FOR THE PROBE POLYNUCLEOTIDE TO BIND...

...TO FORM A HYBRID HAVING A DOUBLESTRANDED PORTION INCLUDING THE 3' END OF THE PROBE **POLYNUCLEOTIDE**, WITH THE TARGET NUCLEIC ACID **SEQUENCE** EXTENDING IN A 3' TO 5' DIRECTION BEYOND THE 3' END NUCLEOTIDE OF THE PROBE...

Non-exemplary Claims: ...target nucleotide sequence in the nucleic acid of a biological sample comprising: (a) a probe **polynucleotide** comprising a primer **sequence** substantially complementary to target and non-target nucleotide sequences in a biological sample, wherein said ...

...the 3'-terminal nucleotide of the primer is complementary to a nucleotide on a template **polynucleotide sequence**.

5/3,K,AB/10
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 1963410 IFI Acc No: 8916515
Document Type: C
FISH GROWTH HORMONE POLYPEPTIDE
Inventors: ITOH SEIGA (JP); MIZUKAMI TAMIO (JP); SAITO AKIKO (JP); SATO MORIYUKI (JP); SEKINE SUSUMU (JP)
Assignee: KYOWA HAKKO KOGYO CO LTD JP
Assignee Code: 47296
Publication (No,Date), Applic (No,Date):
Publication (Kind,No,Date), Applic (No,Date):
US 4849359 **19890718** US 8717630 19870414
Publication Kind: A
Calculated Expiration: 20060718
(Cited in 005 later patents)
Division Pub(No),Applic(No,Date): US 4689402 US 85750587 19850701
Priority Applic(No,Date): JP 84134536 19840629; JP 84213360 19841012; JP 84213361 19841012; JP 8550096 19850313

Abstract: According to the present invention, a recombinant DNA incorporated with a DNA coding for a fish growth hormone polypeptide and a microorganism containing the recombinant DNA were obtained and they can be used for mass production of the fish growth hormone polypeptide.

Publication (No,Date), Applic (No,Date):
...**19890718**

Exemplary Claim: ...CONSISTING ESSENTIALLY OF A DNA CODING FOR A FISH GROWTH HORMONE POLYPEPTIDE HAVING THE PEPTIDE **SEQUENCE**:

A **POLYNUCLEOTIDE** STRAND (DNA) OF ABOUT 634 NUCLEOTIDES ALONG WITH THE CORRESPONDING AMINO ACID SEQUENCE OF THE...

5/3,K,AB/11
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 1937255 IFI Acc No: 8908945
Document Type: C
METHOD FOR INCREASING THE SENSITIVITY OF NUCLEIC ACID HYBRIDIZATION ASSAYS
Inventors: HELLER MICHAEL J (US)
Assignee: MOLECULAR BIOSYSTEMS INC
Assignee Code: 14278 Document Type: REASSIGNED

Publication (No,Date), Applic (No,Date):
US 4824776 **19890425** US 85759047 19850725
Publication Kind: A
Calculated Expiration: 20060425
(Cited in 008 later patents)
Priority Applic(No,Date): US 85759047 19850725

Abstract: An improvement in the sensitivity of hybridization assays for detecting polynucleotide target sequences is provided by selective dehybridization of the bound portion of the probe, separation of the dehybridized portion from the support and the residual sample, and concentrating the separated probe before detecting its presence by means of its reporter group. The concentration step can be carried out by adsorption of the dehybridized probe onto a basic ion exchange material. A displacer sequence having greater binding affinity for the target **polynucleotide sequence** may be used to dehybridize the bound probe portion for subsequent concentration.

Publication (No,Date), Applic (No,Date):
...**19890425**

Abstract: ...a basic ion exchange material. A displacer sequence having greater binding affinity for the target **polynucleotide sequence** may be used to dehybridize the bound probe portion for subsequent concentration.

Exemplary Claim: 1. THE HYBRIDIZATION ASSAY METHOD FOR DETECTING A SPECIFIC **POLYNUCLEOTIDE** TARGET **SEQUENCE** WHEREIN A NUCLEIC ACID CONTAINING TARGET SAMPLE IN SINGLE STRANDED FORM IS AFFIXED TO A SUPPORT, CONTACTED THEREON UNDER HYBRIDIZING CONDITIONS WITH A NONRADIOACTIVE REPORTER GROUP LABELED SINGLE-STRANDED **POLYNUCLEOTIDE** PROBE HAVING A **SEQUENCE** COMPLEMENTARY TO THE TARGET SEQUENCE, SAID PROBE BEING BOUND TO SAID AFFIXED SAMPLE WHEN THE ...

Non-exemplary Claims: ...is dehybridized by contacting the supported sample with a displacer probe comprising a single stranded **polynucleotide sequence** longer than the labelled probe including the same sequence as the labelled probe and an...

...single-stranded form is affixed to a support, contacted thereon with a non-radioactively labelled **polynucleotide** probe having a single-stranded **sequence** complementary to the target sequence to be directed, said probe comprising a sequence of 10...

...is dehybridized by contacting the supported sample with a displacer probe comprising a single-stranded **polynucleotide sequence** longer than the labelled probe including the same sequence as the probe and an additional...

...10. The hybridization assay method for detecting a specific **polynucleotide** target **sequence** wherein a nucleic acid sample containing target in single-stranded form is affixed to a support, contacted thereon under hybridizing conditions with a **polynucleotide** probe having a single-stranded **sequence** complementary to a characterizing target sequence to be detected, said probe comprising a sequence of...portion is dehybridized by contacting the supported sample with a displacer comprising a single stranded **polynucleotide sequence** longer than the labelled probe including the same sequence as the labelled probe and an...

5/3,K,AB/12
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 1930847 IFI Acc No: 8907168
Document Type: C
METHOD AND KIT INVOLVING DISPLACEMENT AND REHYBRIDIZATION OF LABELED POLYNUCLEOTIDE; REAGENT COMPLEX IS DETECTOR POLYNUCLEOTIDE BOUND TO LABELED POLYNUCLEOTIDE
Inventors: COLLINS MARY (US); DOUGHERTY JOSEPH P (US); ELLWOOD MARIAN S (US); FRITSCH EDWARD F (US); JACOBS KENNETH A (US)
Assignee: UNASSIGNED OR ASSIGNED TO INDIVIDUAL
Assignee Code: 68000 Document Type: REASSIGNED
Publication (No,Date), Applic (No,Date):
US 4818680 **19890404** US 85811034 19851218
Publication Kind: A
Calculated Expiration: 20060404
(Cited in 018 later patents)
Priority Applic(No,Date): US 85811034 19851218

Abstract: A diagnostic reagent is disclosed which is capable of binding to a target nucleotide sequence which is bound to a labeled polynucleotide in a target binding region which is at least partially co-extensive with the target binding region in the probe polynucleotide which is capable of binding to the target nucleotide sequence. A method is disclosed in which the reagent is contacted with a sample and with a capturing polynucleotide under conditions such that target nucleotide which may be present in the sample binds to the probe polynucleotide and displaces labeled polynucleotide from the reagent complex, and the capturing polynucleotide binds selectively to the displaced labeled polynucleotide in the region of the labeled polynucleotide that had been bound to the probe polynucleotide. Determination of the displaced nucleotide gives a value which is a function of the presence and concentration of target nucleotide in the sample.

Publication (No,Date), Applic (No,Date):
...**19890404**

Exemplary Claim: ...POLYNUCLEOTIDE WHICH IS CAPABLE OF BINDING BY COMPLEMENTARY BASE PAIR BINDING TO THE TARGET NUCLEOTIDE **SEQUENCE**, AND (II) A LABELED **POLYNUCLEOTIDE** WHICH IS BOUND BY COMPLEMENTARY BASE PAIR BINDING TO THE PROBE POLYNUCLEOTIDE IN A FIRST...
Non-exemplary Claims: ...polynucleotide which is capable of binding by complementary base pair binding to the target nucleotide **sequence**, and (ii) a labeled **polynucleotide** which is bound by complementary base pair binding of a first binding region of the...the region in which the probe polynucleotide is capable of binding to the target nucleotide **sequence**; (b) a capture **polynucleotide** having a second binding region capable of complementary base pair binding selectively to a segment...

5/3,K,AB/13
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 1918133 IFI Acc No: 8903548
Document Type: C
IMMOBILIZATION OF NUCLEIC ACIDS ON SOLVOLYZED NYLON SUPPORTS; **POLYNUCLEOTIDE SEQUENCE** DETECTION; SENSITIVITY
Inventors: CARRICO ROBERT J (US); HATCH ROBERT P (US); PATTERSON WILLIAM L (US)
Assignee: MILES INC
Assignee Code: 55496
Publication (No,Date), Applic (No,Date):
US 4806631 **19890221** US 85781514 19850930

Publication Kind: A
Calculated Expiration: 20060221
(Cited in 007 later patents) Document Type: EXPIRED
Priority Applic(No,Date): US 85781514 19850930

Abstract: Immobilization of nucleic acids, e.g., DNA and RNA, by contact with a solid support comprising nylon whose amide groups have been partially solvolyzed. Solvolysis of the nylon support can be accomplished by treatment with an alkylating agent such as a trialkyloxonium salt under anhydrous conditions followed by addition of water. The immobilized nucleic acid is particularly useful as an immobilized probe in hybridization assays to detect specific polynucleotide sequences in a test sample.

...**POLYNUCLEOTIDE SEQUENCE** DETECTION; SENSITIVITY
Publication (No,Date), Applic (No,Date):
...**19890221**

5/3,K,AB/14
DIALOG(R)File 340:CLAIMS(R)/US Patent
(c) 2002 IFI/CLAIMS(R). All rts. reserv.

Dialog Acc No: 1906427 IFI Acc No: 8900260
Document Type: C
NUCLEIC ACID PROBES AND METHODS OF USING SAME; POLYNUCLEOTIDE-CHELATOR PROBE FOR RECOGNITION AND CLEAVAGE OF DNA OR RNA
Inventors: DERVAN PETER B (US); DREYER GEOFFREY B (US)
Assignee: CALIFORNIA INSTITUTE OF TECHNOLOGY
Assignee Code: 13190
Publication (No,Date), Applic (No,Date):
US 4795700 **19890103** US 85695082 19850125
Publication Kind: A
Calculated Expiration: 20060103
(Cited in 030 later patents) Document Type: EXPIRED
Priority Applic(No,Date): US 85695082 19850125

Abstract: A probe and method for specific recognition or cleavage of single-stranded DNA or RNA at desired loci utilizing sequencespecific polynucleotide-chelator probes. The probe may also be utilized as a diagnostic agent when the metal ion is replaced with a radiolabelled, fluorescing, or otherwise detectable metal.

Publication (No,Date), Applic (No,Date):
...**19890103**
Non-exemplary Claims: ...specified site, including at least one moleucle of EDTA, connected to a nucleoside within said **polynucleotide sequence** by a tether; and (b) at least one metal ion capable of reducing dioxygen selected...single stranded nucleic acid sequence comprising the steps of: (a) hybridizing said selected nucleic acid **sequence** with a **polynucleotide** probe, said probe comprising a nucleotide sequence complementary with at least a portion of said...

5/3,K,AB/15
DIALOG(R)File 340:CLAIMS(R)/US Patent
(c) 2002 IFI/CLAIMS(R). All rts. reserv.

Dialog Acc No: 1904686 IFI Acc No: 8824139
Document Type: C
METHOD FOR LOCATING AND PURIFYING DNA CONTAINING SINGLE BASE MISMATCHES; REACTING UNPAIRED GUANINE AND THYMINE BASES WITH A CARBODIIMIDE; ELECTROPHORESIS
Inventors: CASNA NANCY J (US); FORD JOHN P (US); NOVACK DAVID F (US)

Assignee: LIFECODES CORP
Assignee Code: 15050 Document Type: REASSIGNED
Publication (No,Date), Applic (No,Date):
US 4794075 **19881227** US 85770841 19850829
Publication Kind: A
Calculated Expiration: 20051227
(Cited in 016 later patents) Document Type: EXPIRED Document Type:
CERTIFICATE OF CORRECTION Certificate of Correction Date: 19890912
Priority Applic(No,Date): US 85770841 19850829

Abstract: A method for distinguishing fragments of DNA which contain single base mismatches from their perfectly paired homologues is disclosed. Single stranded regions within a duplex fragment are modified with carbodiimide, which reacts with unpaired guanine (G) and thymine (T) residues in DNA. Linear duplex DNA molecules do not react, while DNA molecules with single base mismatches react quantitatively with carbodiimide. Following reaction with carbodiimide, the DNA molecules are fractionated on high percentage polyacrylamide gels such that modified and unmodified fragments can be clearly distinguished. Application of this technique in order to located and purify DNA sequence differences responsible for phenotype variation and inherited disease is disclosed.

Publication (No,Date), Applic (No,Date):
...**19881227**

Exemplary Claim: ...ONE BASE WHICH IS PAIRED, SAID PRECEDING AND FOLLOWING PAIRED BASES BEING ON THE SAME **POLYNUCLEOTIDE SEQUENCE** AS THE UNPAIRED GUANINE OR THYMINE BASE COMPRISING: (A) REACTING THE DOUBLE STRANDED POLYNUCLEOTIDE MOLECULE...
Non-exemplary Claims: ...one base which is paired, said preceding and following paired bases being on the same **polynucleotide sequence** as the unpaired guanine or thymine base comprising: (a) hybridizing a first single stranded **polynucleotide sequence** with a second single stranded **polynucleotide sequence** to form a double stranded **polynucleotide** molecule; (b) reacting the double stranded polynucleotide molecule with a reagent capable of altering the...

...which are paired, said preceding and following pluralities of paired bases being on the same **polynucleotide sequence** as the unpaired guanine or thymine base...

...one base which is paired, said preceding and following paired bases being on the same **polynucleotide sequence** as the unpaired guanine or thymine base; (c) selectively separating underivatized polynucleotide molecules from derivatized...which are paired, said preceding and following pluralities of paired bases being on the same **polynucleotide sequence** as the unpaired guanine or thymine base...one base which is paired, said preceding and following paired bases being on the same **polynucleotide sequence** as the unpaired base, comprising: (a) reacting the double stranded polynucleotide molecule with a reagent...

...one base which is paired, said preceding and following paired bases being on the same **polynucleotide sequence** as the unpaired base, comprising: (a) hybridizing a first single stranded **polynucleotide sequence** with a second single stranded poyynucleotide **sequence** to form a double stranded **polynucleotide** molecule; (b) reacting the double stranded polynucleotide molecule with a reagent capable of altering the...

...one base which is paired, said preceding and following paired bases being on the same **polynucleotide sequence** as said mispaired

base; (c) selectively separating underivatized polynucleotide molecules from derivatized polynucleotide molecules according...

...which are paired, said preceding and following pluralities of paired bases being on the same **polynucleotide sequence** as said mispaired base...

5/3,K,AB/16
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 1904684 IFI Acc No: 8824137
Document Type: C
DETECTION OF NUCLEIC ACID HYBRIDS BY PROLONGED CHEMILUMINESCENCE
Inventors: CLEMENS ANTON H (US); DATTAGUPTA NANIBHUSHAN (US)
Assignee: MOLECULAR DIAGNOSTICS INC
Assignee Code: 13044 Document Type: REASSIGNED
Publication (No,Date), Applic (No,Date):
US 4794073 **19881227** US 85753734 19850710
Publication Kind: A
Calculated Expiration: 20051227
(Cited in 016 later patents) Document Type: EXPIRED Document Type: CERTIFICATE OF CORRECTION Certificate of Correction Date: 19900109
Priority Applic(No,Date): US 85753734 19850710

Abstract: A nucleic acid probe capable of participating in a chemiluminescent reaction comprising a defined nucleic acid sequence, the sequence being linked to any one of a. a chemiluminescence precursor, b. a chemiluminescence enhancer, and c. an enzyme the remaining two of (a), (b) and (c) not linked to the sequence being in a mixture of the linked sequence. A method for determining a particular single stranded **polynucleotide sequence** in a test medium, comprising the steps of: (a) combining the test medium with a **polynucleotide** probe having a base **sequence** substantially complementary to the sequence to be determined, (b) labeling either the resulting hybrids or probe which has not hybridized with the sequence to be determined with one of the participants in an enhanced chamiluminescent reaction involving a chemiluminescent precursor, an enzyme, an oxidant, and a chemiluminescence enhancer, (c) initiating such chemiluminent reaction with the labeled hybrid or probe, and (d) detecting the resulting light emission.

Publication (No,Date), Applic (No,Date):
...**19881227**

Abstract: ...in a mixture of the linked sequence. A method for determining a particular single stranded **polynucleotide sequence** in a test medium, comprising the steps of: (a) combining the test medium with a **polynucleotide** probe having a base **sequence** substantially complementary to the sequence to be determined, (b) labeling either the resulting hybrids or...

Exemplary Claim: 1. A METHOD FOR DETERMINING A PARTICULAR SINGLE STRANDED **POLYNUCLEOTIDE SEQUENCE** IN A TEST MEDIUM, COMPRISING THE STEPS OF: (A) IMMOBILIZING ON A SOLID SUPPORT SINGLE STRANDED NUCLEIC ACIDS IN THE TEST MEDIUM, (B) CONTACTING THE IMMOBILIZED NUCLEIC ACIDS WITH A **POLYNUCLEOTIDE** PROBE HAVING A BASE **SEQUENCE** SUBSTANTIALLY COMPLEMENTARY TO THE SEQUENCE TO BE DETERMINED AND SAID CONTACTING BEING UNDER CONDITIONS FAVORABLE...

...AND (F) RELATING THE AMOUNT OF EMITTED LIGHT TO THE AMOUNT OF THE SINGLE STRANDED **POLYNUCLEOTIDE SEQUENCE**, THE CHEMILUMINESCENCE ENHANCER BEING SELECTED FROM THE GROUP CONSISTING OF LUCIFERIN AND

DEHYDROLUCIFERIN AND WHEREIN...

5/3,K,AB/17
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 1896792 IFI Acc No: 8822092
Document Type: C
DNA SEQUENCE; DIAGNOSIS AND TREATMENT OF LEUKEMIA
Inventors: ICHIKAWA YATARO (JP); KUDO AKIRA (JP); NISHIMURA YUSHI (JP); WATANABE TAKESHI (JP)
Assignee: TEIJIN LTD JP
Assignee Code: 83296
Publication (No,Date), Applic (No,Date):
Publication (Kind,No,Date), Applic (No,Date):
US 4786719 **19881122** US 85790970 19851024
Publication Kind: A
Calculated Expiration: 20051122
Document Type: EXPIRED Document Type: CERTIFICATE OF CORRECTION
Certificate of Correction Date: 19900109
Priority Applic(No,Date): JP 84224205 19841026

Abstract: A DNA **sequence** comprising a **polynucleotide** segment consisting of a DNA **sequence** (A) shown below and a DNA sequence complementary thereto:

GATGTGCAGCTGGTGGAGTCTGGGGGAGGCTTA
GTGCAGCCT
GGAGGGTCCCGGAAACTCTCCTGTGCAGCCTCT
GGATTCACT
TTCAGTAGCTTTGGAATGCACTGGGTTCGTCAG
GCTCCAGAG
AAGGGGCTGGAGTGGGTCGCATATATTAGTGGT
GGCAGTTAT
ACCATCTACTATGCAGACACAGTGAAGGGCCGA
TTCACCATC
TCCAGAGACAATCCCAAGAACACCCTGTTCCTA
CAAATGACC
AGTCTAAGGTCTGAGGACACGGCCATGTATTAC
TGTGCAAGT
TCCTATGGTAACTTCTGGTACTTCGATGTCTGG
GGCGCAGGG
ACCACGGTCACCGTCTCCTCA

wherein A represents deoxyadenosine-5'-phosphate, C represents deoxycytidine-5'-phosphate, G represents deoxyguanosine-5'phosphate, and T represents deoxythymidine-5'-phosphate. The DNA sequence provided by this invention is derived from a rearranged immunoglobulin heavy chain variable (VH) region gene taken from the mouse hybridoma NL-1 cells which produce an antibody capable of commonly recognizing surface antigens of various human acute lyphocytic leukemia cells. Accordingly, if, for example, it is combined with a heavy chain constant (CH) region gene, a heavy chain can be produced which can recognize commonly various human acute lymphocytic leukemia cells in combination with a proper light chain. This would serve for the diagnosis and treatment of human acute lymphocytic leukemia.

Publication (No,Date), Applic (No,Date):
...**19881122**

Abstract: A DNA **sequence** comprising a **polynucleotide** segment consisting of a DNA **sequence** (A) shown below and a DNA sequence complementary thereto:

GATGTGCAGCTGGTGGAGTCTGGGGGAGGCTTA
GTGCAGCCT
GGAGGGTCCCGGAAACTCTCCTGTGCAGCCTCT
GGATTCACT
TTCAGTAGCTTTGGAATGCACTGGGTTCGTCAG
GCTCCAGAG...
Non-exemplary Claims: 1. A DNA **sequence** comprising a double strand **polynucleotide** segment consisting of a DNA **sequence** (A) shown below and a DNA sequence complementary thereto...

5/3,K,AB/18
DIALOG(R)File 340:CLAIMS(R)/US Patent
(c) 2002 IFI/CLAIMS(R). All rts. reserv.

Dialog Acc No: 1886567 IFI Acc No: 8818922
Document Type: C
NUCLEIC ACID PROBE DETECTABLE BY SPECIFIC NUCLEIC ACID BINDING PROTEIN; (NON-AND) HYDRIDIZABLE STRANDS OF NUCLEIC ACID WITH PROTEIN-BINDING SITES
Inventors: CROTHERS DONALD M (US); DATTAGUPTA NANIBHUSHAN (US); KNOWLES WILLIAM J (US); RAE PETER M (US)
Assignee: MOLECULAR DIAGNOSTICS INC
Assignee Code: 13044 Document Type: REASSIGNED
Publication (No,Date), Applic (No,Date):
US 4777129 **19881011** US 84662858 19841019
Publication Kind: A
Calculated Expiration: 20051011
(Cited in 025 later patents) Document Type: EXPIRED Document Type: CERTIFICATE OF CORRECTION Certificate of Correction Date: 19890725
Cont.-in-part Pub(No),Applic(No,Date): US 83560462 19831212
Priority Applic(No,Date): US 84662858 19841019; US 83560462 19831212

Abstract: A nucleic acid detection probe comprising a hybridizable single stranded portion of nucleic acid connected with a nonhybridizable, single or double stranded nucleic acid portion, the non-hybridizable portion preferably including a recognition site for binding by a particular protein. Such recognition site can be a region of singly or doubly stranded nucleic acid specific for a particular nucleic acid binding protein such as lac repressor protein or can be a modified nucleic acid region such as a unique antigenic determinant introduced by interaction of the region with a modifier compound such as an intercalating agent or a platinum-containing ligand. The probe-binding protein can be labeled for ease of detection and in the case of an antigenic determinant binding site can be labeled antibody.

Publication (No,Date), Applic (No,Date):
...**19881011**
Non-exemplary Claims: ...10. A method for detecting a particular **polynucleotide sequence** in a test medium containing single stranded nucleic acids, comprising the steps of: (a) combining...21. A kit for detecting a particular **polynucleotide sequence** in a test medium, comprising in one or more containers: (1) a nucleic acid detection...

5/3,K,AB/19
DIALOG(R)File 340:CLAIMS(R)/US Patent
(c) 2002 IFI/CLAIMS(R). All rts. reserv.

Dialog Acc No: 1884958 IFI Acc No: 8818462
Document Type: C

VECTORS AND COMPOUNDS FOR EXPRESSION OF HUMAN PROTEIN C; CONSTRUCTED DNA; CARDIOVASCULAR DISORDERS
Inventors: BANG NILS U (US); BECKMANN ROBERT J (US); JASKUNAS S RICHARD (US); LAI MEI-HUEI T (US); LITTLE SHELIA P (US); LONG GEORGE L (US); SANTERRE ROBERT F (US)
Assignee: LILLY, ELI AND CO
Assignee Code: 49800
Publication (No,Date), Applic (No,Date):
US 4775624 **19881004** US 85699967 19850208
Publication Kind: A
Calculated Expiration: 20051004
(Cited in 052 later patents) Document Type: REISSUE REQUESTED
Document Type: CERTIFICATE OF CORRECTION Certificate of Correction Date: 19910108
Priority Applic(No,Date): US 85699967 19850208

Abstract: The present invention comprises novel DNA compounds which encode human protein C activity. A variety of eukaryotic and prokaryotic recombinant DNA expression vectors have been constructed that comprise the novel protein C activity-encoding DNA and drive expression of protein C activity when transformed into an appropriate host cell. The novel expression vectors can be used to produce protein C derivatives, such as non-carboxylated, nonglycosylated, or non-hydroxylated protein C, and to produce protein C precursors, such as nascent or zymogen protein C, and to produce sub-fragments of protein C, such as active or inactive light and heavy chain. The recombinant-produced protein C activity is useful in the treatment and prevention of a variety of vascular disorders.

Publication (No,Date), Applic (No,Date):
...**19881004**

Exemplary Claim: ...THAT ENCODES A POLYPEPTIDE WITH HUMAN PROTEIN C ACTIVITY, WHEREIN THE CODING STRAND IS:

A **POLYNUCLEOTIDE SEQUENCE** OF OVER 410 CODONS BEGINNING WITH 5'-(R1)N-(R)M-

WHEREIN A IS DEOXYADENYL...

5/3,K,AB/20
DIALOG(R)File 340:CLAIMS(R)/US Patent

Dialog Acc No: 1884953 IFI Acc No: 8818457
Document Type: C
POLYNUCLEOTIDE DETERMINATION WITH SELECTABLE CLEAVAGE SITES; HYBRIDIZING, BINDING LABEL TO SUPPORT, RELEASING, CLEAVING WITH RESTRICTION ENDONUCLEASE
Inventors: URDEA MICKEY S (US)
Assignee: CHIRON CORP
Assignee Code: 11661 Document Type: REASSIGNED
Publication (No,Date), Applic (No,Date):
US 4775619 **19881004** US 84661508 19841016
Publication Kind: A
Calculated Expiration: 20051004
(Cited in 080 later patents) Document Type: CERTIFICATE OF CORRECTION
Certificate of Correction Date: 19930706, 19931109, 19931221
Priority Applic(No,Date): US 84661508 19841016

Abstract: Methods for diagnosis employing polynucleotides having oligonucleotide sequences substantially homologous to a sequence of interest, where the presence or absence of hybridization at a predetermined stringency provides for the release of a label from a support.

Particularly, various techniques are employed for binding a label to a support, whereupon cleavage of either a single or double strand, a label may be released from a support, where the release of the label can be detected as indicative of the presence of a particular oligonucleotide sequence in a sample. The method finds use in diagnosis of disease, genetic monitoring, and analyzing nucleic acid mixtures.

Publication (No,Date), Applic (No,Date):
...**19881004**
Non-exemplary Claims: ...of interest in a nucleic acid analyte present in a nucleic acid sample, comprising a **polynucleotide sequence** bound proximal to one end to a support and proximal to the opposite end to a label capable of providing, directly or indirectly, a detectable signal, said **polynucleotide sequence** having a **sequence** which when duplexed with said sequence of interest defines a selectable cleavage site cleavable by...

...interest in a nucleic acid analyte present in a nucleic acid sample, comprising a first **polynucleotide** having a first oligonucleotide **sequence** complementary to a first portion of said sequence of interest; and a labeled second polynucleotide, wherein said label provides, directly or indirectly a detectable signal, said second labeled **polynucleotide** having a second oligonucleotide **sequence** complementary to a second portion of said sequence of interest, said first and second portions...
?